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Abstract

Disclosed is a sensor element for electrically measuring the position of liquid levels, comprising a substrate (2) and a plurality of electrodes (3) that can be contacted individually and that are mounted on the substrate, characterized in that the electrodes comprise sensor-active partial electrodes (5) that are networked with electrical connections (7), with the partial electrodes of two respective electrodes always being positioned opposite one another, separated by a distance, as partial electrode pairs (11), and with the electrode pairs (8) thus formed recurring periodically over the length of the sensor. Quasi-digital measuring methods are derived from the behavior of the impedance of the electrode pairs, whereby the liquid level is measured by detecting a conductivity boundary in a capillary filling.